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(54) Title: DIAGNOSTIC MARKERS OF ACUTE CORONARY SYNDROMES AND METHODS OF USE THEREOF

(57) Abstract: The present invention relates to methods for the diagnosis and evaluation of acute coronary syndromes. In particular, patient test samples are analyzed for the presence and amounts of members of a panel of markers comprising one or more specific markers for myocardial injury and one or more non-specific markers for myocardial injury. A variety of markers are disclosed for assembling a panel of markers for such diagnosis and evaluation. In various aspects, the invention provides methods for the early detection and differentiation of stable angina, unstable angina, and myocardial infarction. Invention methods provide rapid, sensitive and specific assays that can greatly increase the number of patients that can receive beneficial treatment and therapy, reduce the costs associated with incorrect diagnosis, and provide important information about the prognosis of the patients.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/14319

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/53; A61K 38/00
 US CL : 435/7.1, 7.21, 7.93, 7.94; 436/86, 518, 536, 811, 817; 514/12, 324

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1, 7.21, 7.93, 7.94; 436/86, 518, 536, 811, 817; 514/12, 324

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 MEDLINE, EMBASE, SCISEARCH, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	TATEISHI et al. Transient increase in plasma brain (B-type) natriuretic peptide after percutaneous transluminal coronary angioplasty. <i>Clinical Cardiology</i> . 2000, Vol. 23, No. 10, pages 776-780, see entire document.	1-14, 16-22, 41-55 ----- 15, 23-40
X --- Y	DATABASE MEDLINE. Accession no. 1999335795. Complementary DNA cloning, tissue distribution, and synthesis of canine brain natriuretic peptide. <i>American Journal of Veterinary Research</i> . ASANO et al. July 1999, Vol. 60, No. 7, pages 860-864, Abstract.	1-14, 16-22, 41-55 ----- 15, 23-40
X --- Y	DATABASE EMBASE. Accession No. 2001129199. Non-visible myocardium, documented by TL-281 SPECT, is a main determinant of the increase in the secretion of cardiac natriuretic peptides. <i>Medicine Neuroscience</i> . 2000, HASSAN et al. Vol. 24, No. 6, pages 301-310, Abstract.	23-55 ----- 1-22
Y	US 6,117,844 A (DEROLD) 12 September 2000 (12.09.2000), see entire document.	1-55
Y --- A	US 6,028,055 A (LOWE et al.) 22 February 2000 (22.02.2000), see entire document.	56-68 ----- 1-55

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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